Date: 01-04-2019

NC/PMC/PD/MW-13/2019-20/DG2-C1

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	162 min	Shall not be less than 30 min
2	Final setting time	273 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.19 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.74 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.43 N/Sq mm	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

For Newzen Consultants Bangalore

Proprietor

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NC/PMC/PD/MW-13/2019-20/DG2-PCC1

Date: 01-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100	85-100	95 – 100
20mm	55.90	0 -20	30- 70
10mm	26.25	0 -5	10- 35
4.75mm	3.70	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	97.20	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.65	60-95	75-100	85-100	
01.18	58.90	30-70	55-90	75-100	
600. mic	56.15	15-34	35-59	60-79	
300.mic	16.40	5-20	8-30	12-40	
150.mic	7.85	0-10	0-10	0-10	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231. 080 23240187

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Date: 09-04-2019

NC/PMC/PD/MW-13/2019-20/DG2-C2

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	179 min	Shall not be less than 30 min
2	Final setting time	269 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.14 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.07 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	29.11 N/Sq mm	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E, (Civil-Engg)
For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

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Date: 09-04-2019

NC/PMC/PD/MW-13/2019-20/DG2-FA1

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	96.75	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.10	60-95	75-100	85-100	
01.18	75.40	30-70	55-90	75-100	
600. mic	56.05	15.34	35-59	60-79	
300.mic	24.85	5-20	8-30	12-40	
150.mic	7.20	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	17.65 %	-----
2	Silt Content	----	0.64 %	Not more than 8%
3	Specific Gravity	----	2.60	-------

KIRAN. R
M.E, (Civil-Engg)
For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 09-04-2019

NC/PMC/PD/MW-13/2019-20/DG2-CA1

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.45	85-100	90 - 100
10 mm	44.80	0 - 20	25 - 55
4.75 mm	3.25	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	23.15 %	Not to exceed 25 %
2.	Crushing value	28.55 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

K. R
KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 09-04-2019

NC/PMC/PD/MW-13/2019-20/DG2-S1

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 16, 20 & 25 mm **TMT Steel.**
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0mm**	8.0mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.394**	0.363	**0.622**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**536.0**	500.0	**542.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**22.10**	12.00	**21.80**	16.00
06	Ultimate Tensile Strength **N/mm^2**	**619.0**	545.0	**624.0**	565.0

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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TABLE – 2

SL No	Details	For 12 mm		For 16 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**12.0mm**	12.0mm	**16.0 mm**	16.0 mm
02	Observed Wt/m Length **Kg/m**	**0.892**	0.834	**1.596**	1.483
03	Proof stress/Yield stress, fy , **N/mm^2**	**546.0**	500.0	**561.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.75**	12.00	**20.40**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**628.0**	545.0	**645.0**	545.0

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 09-04-2019

TABLE – 3

SL No	Details	For 20 mm		For 25 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**20.0mm**	20.0mm	**25.0mm**	25.0mm
02	Observed Wt/m Length **Kg/m**	**2.472**	2.366	**3.864**	3.697
03	Proof stress/Yield stress, fy , **N/mm^2**	**551.0**	500.0	**564.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.40**	12.00	**20.10**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**639.0**	545.0	**656.0**	545.0

KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore

Prop.

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 22-04-2019

NC/PMC/PD/MW-13/2019-20/DG2-CB1

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-19	22-04-19	07	22500	425	18.89	**19.26**
	002	‘’	“	‘’	“	435	19.33	
	003	‘’	“	‘’	“	440	19.56	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 23-04-2019

NC/PMC/PD/MW-13/2019-20/DG2-CB2

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-04-19	23-04-19	07	22500	415	18.44	18.59
	002	"	"	"	"	430	19.11	
	003	"	"	"	"	410	18.22	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/PMC/PD/MW-13/2019-20/DG2-CB3 Date: 29-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-04-19	29-04-19	07	22500	430	19.11	19.26
	002	"	"	"	"	445	19.78	
	003	"	"	"	"	425	18.89	

K.R
KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

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